

FIG.4

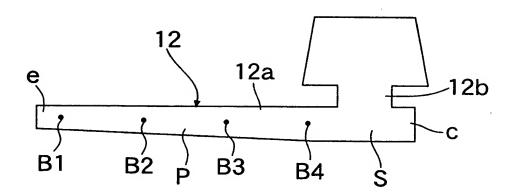
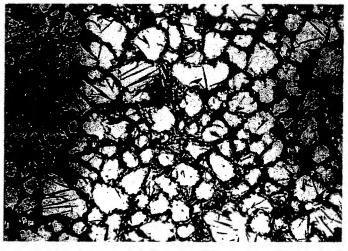


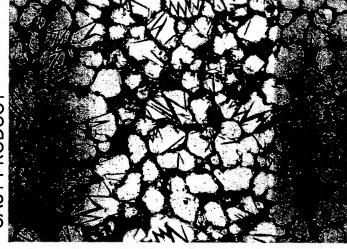
FIG.5C

FIG.5B

BASE END PORTION B3 OF EXAMPLE (1) OF CAST PRODUCT



INTERMEDIATE PORTION B2 OF EXAMPLE (1) OF CAST PRODUCT

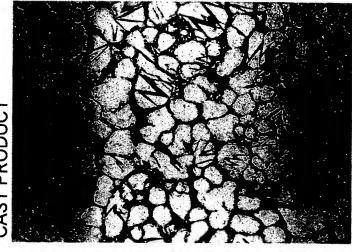


 100μ m

100µm

FIG.5A

TIP END PORTION B1 OF EXAMPLE (1) OF CAST PRODUCT



 100μ m

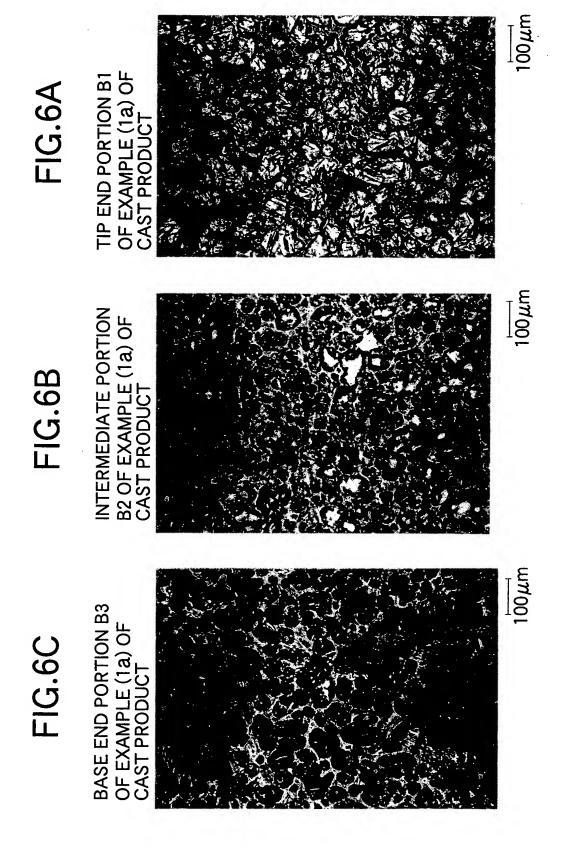


FIG.7B

BASE END PORTION B3 OF EXAMPLE (1a) OF CAST PRODUCT

BASE END PORTION B3 OF EXAMPLE (1) OF CAST PRODUCT

FIG.7A



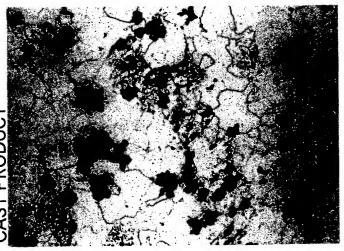


FIG.8B

BASE END PORTION B3 OF EXAMPLE (1a) OF CAST PRODUCT

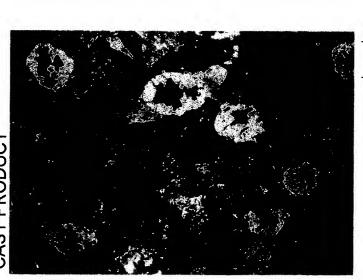
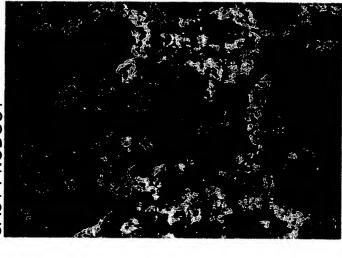


FIG.8A

BASE END PORTION B3 OF EXAMPLE (1) OF CAST PRODUCT



25μm

25µm

FIG.9B

BASE END PORTION B3 OF EXAMPLE (1a) OF CAST PRODUCT

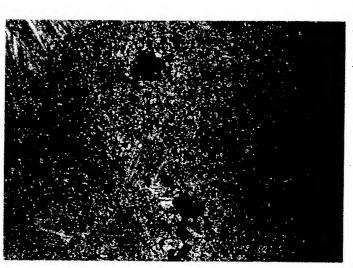


FIG.9A

BASE END PORTION B3 OF EXAMPLE (1) OF CAST PRODUCT



25µm

25µm

FIG.10

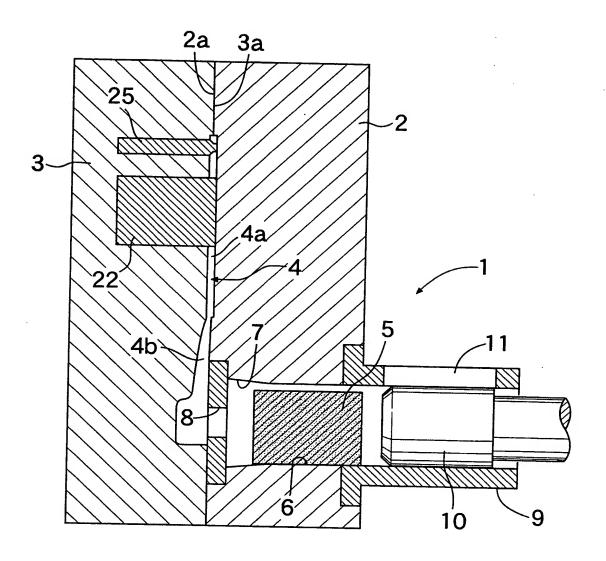


FIG.11

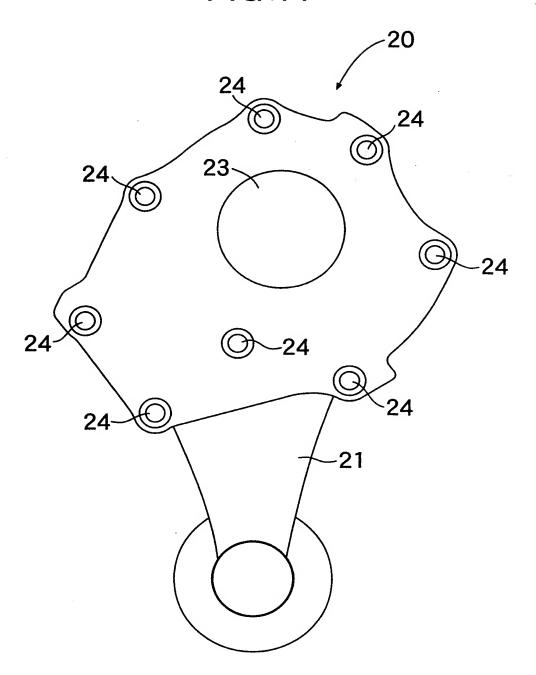


FIG.12



FIG.13

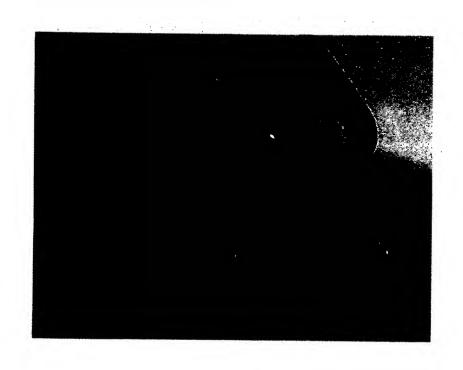
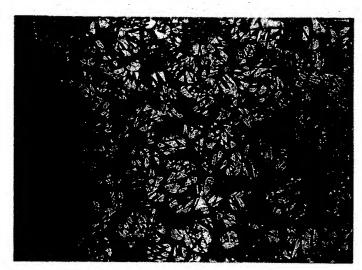


FIG.14



FIG.15



 $100\mu m$

FIG.16

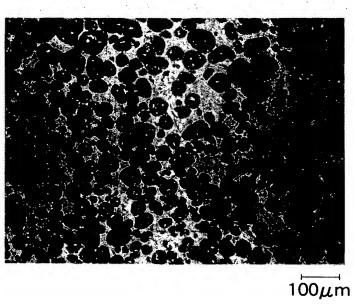


FIG.17

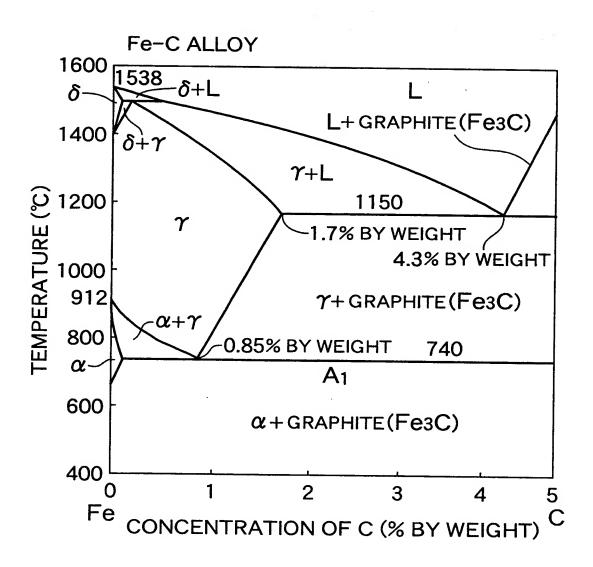


FIG.18

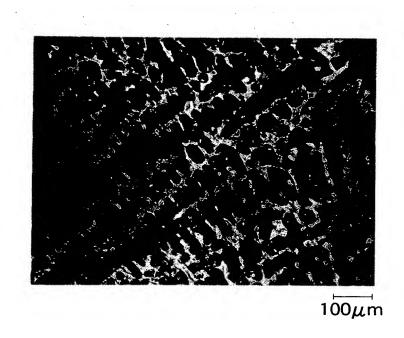


FIG.19

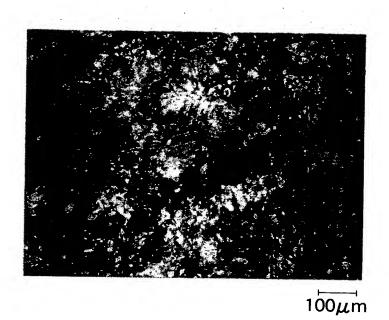


FIG.20

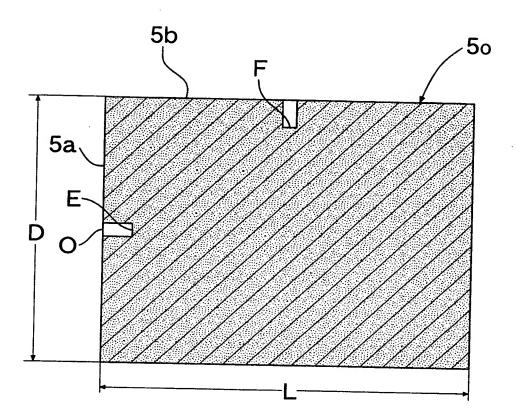


FIG.21

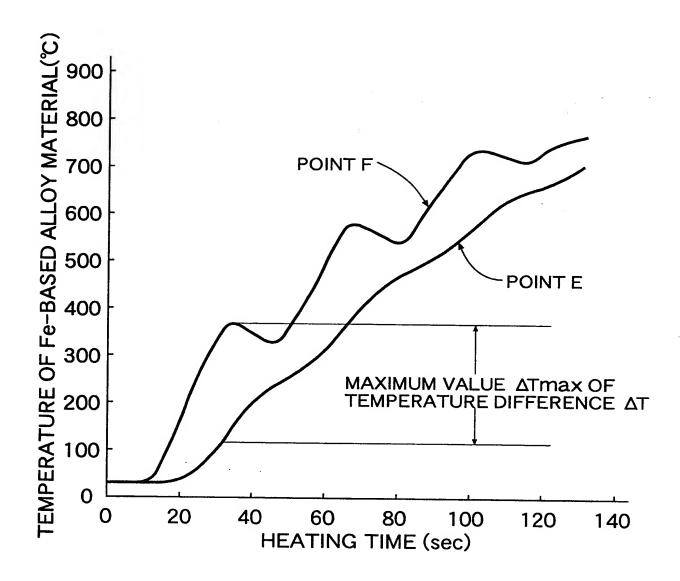


FIG.22

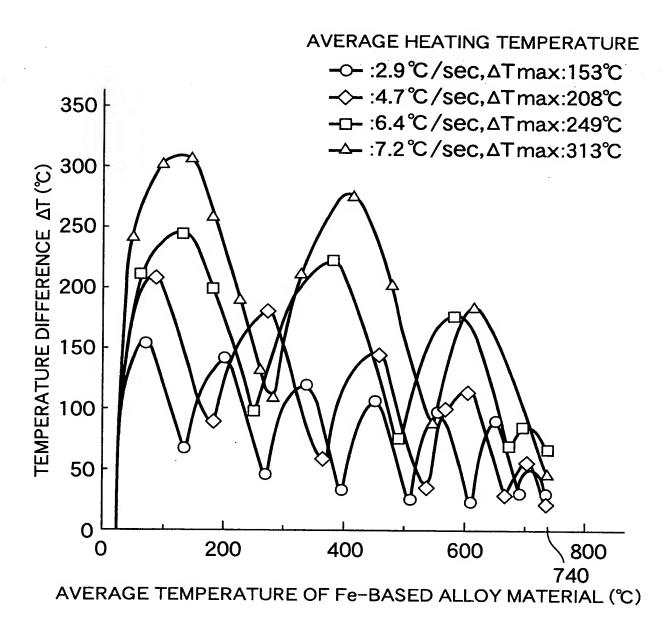


FIG.23

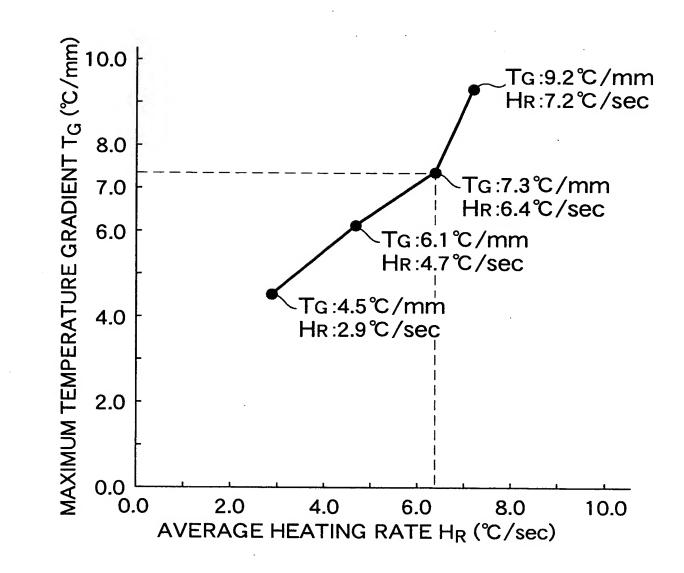


FIG.24

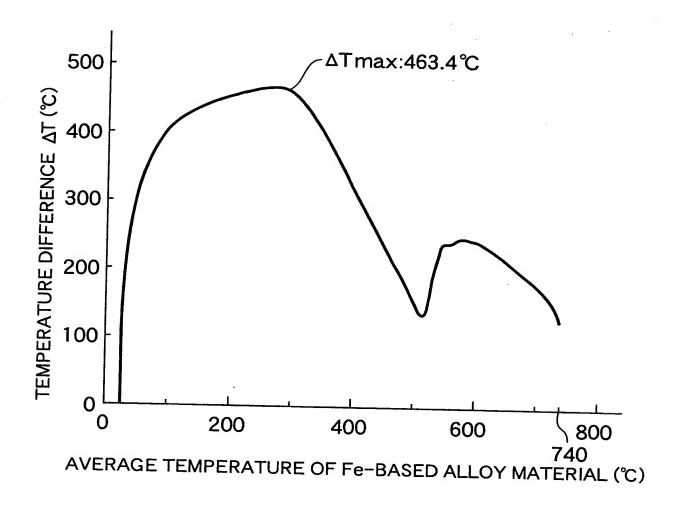


FIG.25

NO GENERATION OF CRACKS DUE TO HEATING

O: GENERATION OF CRACKS DUE TO HEATING

CONTINUOUSLY-CAST MATERIAL
DIE-CAST MATERIAL
CHILLED STRUCTURE : DRESENCE

